UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P. D. Rey 1459

EXAMINER

P O Box 1450 Alexandria, Virgima 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

22879 7590 08/11/2009 HEWLETT-PACKARD COMPANY Intellectual Property Administration 3404 E. Harmony Road

Mail Stop 35

FORT COLLINS, CO 80528

JEAN, FRANTZ B

ART UNIT PAPER NUMBER

2454

DATE MAILED: 08/11/2009

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNITY DOCKET NO.
 CONFIRMATION NO.

 10/684,033
 10/09/2003
 W. Bruce Culbertson
 20/0315392-1
 3187

TITLE OF INVENTION: METHOD AND SYSTEM FOR CLUSTERING DATA STREAMS FOR A VIRTUAL ENVIRONMENT

 APPLN.TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEE(S) DUE
 DATE DUE

 nonprovisional
 NO
 \$1510
 \$300
 \$0
 \$1810
 11/12/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	ed below or directed oth	ng the Patent, advance of nerwise in Block 1, by (rders and notification a) specifying a new o	of n	naintenance fees w pondence address;	ill be and/or	mailed to the current (b) indicating a sepa	correspondence a rate "FEE ADDR	ddress as ESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
22879	7590 08/11				Cer	tificate	of Mailing or Trans	mission	
HEWLETT-PACKARD COMPANY Intellectual Property Administration 3404 E. Harmony Road				I hereby certify that this Pete(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.					
Mail Stop 35 FORT COLLIN	S. CO 80528							(Deposi	itor's name)
TOTAL COLLEGE	0,000020								(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFIRMATION	N NO.
10/684,033	10/09/2003		W. Bruce Culbertson		200315392-1		3187		
		TEM FOR CLUSTERING						_	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	OUE	PREV. PAID ISSUE	S FEE	TOTAL FEE(S) DUE	DATE DU	Æ
nonprovisional	NO	\$1510	\$300		\$0		\$1810	11/12/20	-09
EXAM		ART UNIT	CLASS-SUBCLASS	3					
JEAN, FF		2454	709-231000 2. For printing on						
1. Change of correspondence address or indication of "Fee Address" (57 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form FITOSH 22) attached. The Address of indication of "Fee Address" indication form FITOSH47; Rev 03-02 or more recent) attached. Use of a Custome Number is required.			e or agents OR, alternatively, (2) the name of a single firm (having as a member a 2						
3. ASSIGNEE NAME A PLEASE NOTE: Uni recordation as set fort (A) NAME OF ASSIGNAME Please check the appropri	less an assignee is ident h in 37 CFR 3.II. Comp GNEE	ified below, no assignee pletion of this form is NC	data will appear on the substitute for filing (B) RESIDENCE; (C)	he pa g an a	atent. If an assign assignment. and STATE OR C	OUNT	RY)		
						_			
4a. The following fee(s) Issue Fee	are submitted:	4	 b. Payment of Fee(s): (A check is enclos 		se first reapply ar	ıy prev	iously paid issue fee	hown above)	
Publication Fee (N	vo small entity discount p	permitted)	Payment by credi	it care					
Advance Order - # of Copies The Director is hereby authorized to charge the required overpayment, to Deposit Account Number					equired fee(s), any de (enclose a	iciency, or credit extra copy of thi	any s form).		
5. Change in Entity Sta	tus (from status indicate		☐ b Applicant is no	o lone	per claiming SMAI	L.EN	TTY status. Sec 37 Cl	R 1 27(e)(2)	
NOTE: The Issue Fee an interest as shown by the									r party in
Authorized Signature					Date				
Typed or printed name			Registration No.						
This collection of inform an application. Confiden submitting the complete this form and/or suggests Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this bu 'irginia 22313-1450. DC k13-1450.	CFR 1.311. The informati U.S.C. 122 and 37 CFR USPTO. Time will var- rden, should be sent to the ONOT SEND FEES OR	on is required to obtain 1.14. This collection is depending upon the ise Chief Information O COMPLETED FORM	n or n is est indiv Office IS TO	etain a benefit by t imated to take 12 i idual case. Any co r, U.S. Patent and O'THIS ADDRESS	he publ minutes mment Traden i. SENI	ic which is to file (and to complete, includin s on the amount of tir hark Office, U.S. Depo O TO: Commissioner	by the USPTO to g gathering, prepa ne you require to atment of Comme or Patents, P.O. H	process) uring, and complete erce, P.O. dox 1450,

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandria, Virgima 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/684,033	10/684,033 10/09/2003 W. Bruce Culbertson		200315392-1	3187		
22879 75	590 08/11/2009		EXAM	UNER		
HEWLETT-PACKARD COMPANY			JEAN, FRANTZ B			
Intellectual Property Administration			ART UNIT	PAPER NUMBER		
3404 E. Harmony I Mail Stop 35 FORT COLLINS.			2454 DATE MAILED: 08/11/200	9		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 935 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 935 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)
10/684,033	CULBERTSON ET AL.
Examiner	Art Unit
Frantz B. Jean	2454

The MAILING DATE of this communication appears on a later than the member of the me	MAINS) CLOSED in this application. If not included appropriate communication will be mailed in due course. THIS This application is subject to withdrawal from issue at the initiative
 This communication is responsive to the RCE filed on 6/29/09. 	
2. The allowed claim(s) is/are <u>1,5-22,25 and 29-39</u> .	
3.	ceived. ceived in Application No have been received in this national stage application from the semmunication to file a reply complying with the requirements his application. te the attached EXAMINER'S AMENDMENT or NOTICE OF (15) why the oath or declaration is deficient. mitted. ent Drawing Review (PTO-948) attached ment / Comment or in the Office action of ould be written on the drawings in the front (not the back) of raccording to 37 CFR 1.121(d). DLOGICAL MATERIAL must be submitted. Note the
Attachment(s) . ☐ Notice of References Cited (PTO-892) . ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) . ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 6/29/09 t. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	Notice of Informal Patent Application Interview Summary (PTO-413), Paper No./Mail Date ⊠ Examiner's Amendment/Comment ⊠ Examiner's Statement of Reasons for Allowance □ □ Other
/Frantz B. Jean/	
Primary Examiner, Art Unit 2454	

Application/Control Number: 10/684,033

Art Unit: 2454

Claims 1, 5-22, 25, and 29-39 are allowed over the prior art of record and in light of applicant's arguments.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 06/29/09 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John Wagner on 03/03/09.

The application has been amended as follows:

Claims 25 and 29-39, after "computer readable", insert -storage--.

The following is an examiner's statement of reasons for allowance: the prior art fails to teach the steps of generating a common video image stream as said common data stream of an object associated with said sending node using a new view synthesis technique, wherein said common video image stream is rendered from a common perspective in said virtual environment that is associated with said cluster of receiving nodes wherein said common perspective is calculated from an average of said at least one cluster in parameter; generating a three-dimensional model of said object to which

Application/Control Number: 10/684,033

Art Unit: 2454

said new view synthesis technique is applied to generate said common video image stream; and sending said common data stream from a sending node to said cluster of receiving nodes.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frantz B. Jean whose telephone number is 571-272-3937. The examiner can normally be reached on 8:30-6:00 M-f.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan J. Flynn can be reached on 571-272-1915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/684,033 Page 4

Art Unit: 2454

/Frantz B. Jean/ Primary Examiner, Art Unit 2454